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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,853	08/09/2006	Olivier Larcher	1022702-000293	6966
	7590 05/22/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE	BOX 1404	ZIMMER, ANTHONY J		
ALEXANDRIA, VA 22313-1404		ART UNIT	PAPER NUMBER	
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			05/22/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

	Application No.	Applicant(s)				
	10/568,853	LARCHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	ANTHONY J. ZIMMER	1793				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11 Fe	bruary 2009					
	action is non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>16-37</u> is/are pending in the application	1.					
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) <u>24-35</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>16-23 and 36-37</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1)						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>1/23/2009</u> . 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 16-23 and 36-37 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 16 recites the limitation, "exhibiting ... a specific surface area of at least 15 m²/g after calcining at least once at a temperature of at least 850°C." Emphasis added. Applicant claims that support for this amendment can be found in at least page 3, lines 6-7; page 15, lines 3-7 and 16-19; page 22, lines 14-15; and the original claims. However, the cited passages and the rest of the original disclosure do not contain support for said limitation. The passages cited do not support the claimed surface area range being measured after calcination more than once at the claimed temperature (850°C). Instead, the original disclosure teaches a second calcination at a temperature greater than 400°C (see page 3, lines 5-9 and 30-34 for instance), uses a 500°C atmosphere in the examples, teaches that a second calcination temperature over 900°C is not preferred (see page 15, lines 33-35) and never mentions the range of 850°C or greater for the second calcination. The same applies for the similar limitations in claims

36 and 37. Also, the original disclosure does not support performing a calcination process more than twice (as the claim has the limitation "at least once").

The disclosure as originally filed also does not support the limitation of "about 1100°C" present in claim 37, as such a limitation encompasses a range around 1100°C including temperatures above 1100°C which are not supported by the original disclosure eg., page 15, lines 16-19.

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-18, 20, and 36-37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Blanchard '563.

In regard to claims 16-18, 20, and 36-37; Blanchard teaches a cerium oxide and zirconium oxide species with a Ce/Zr ratio of greater than 1, a specific surface area of greater than 30 m²/g after calcination at a temperature of 1000°C, and containing other lanthanide elements other than cerium (in particular lanthanum, praseodymium, or

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neodymium). See [0023]. Blanchard is silent in regard the reducibility of the composition disclosed therein and the surface area after calcination at 1100°C, however the composition appears to be the same as that instantly claimed because the known structure and composition are the same, as elaborated above. See MPEP 2112.01.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 19 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blanchard '563.

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In regard to claims 19, Blanchard teaches a ratio of Ce/Zr of greater than 1, see [0023], overlapping ranges are *prima facie* obviousness. See MPEP 2144.05.

In regard to claims 21 and 23, Blanchard teaches that the composition can further comprise platinum, rhodium, palladium, or iridium. See [0076]. See above for the limitation of claim 22.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 16-23 and 36-37 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 15-20 and 27-31 of copending Application No. 10/549531. Although the conflicting claims are not identical, they are not patentably distinct from each other because: The composition of the metal oxide cited in the instant claims is met by the limitations of the cited claims of

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10/549531. Though the reducibility as defined in the instant specification is not mentioned in the claims of 10/549531, the catalysts disclosed therein would have a reducibility in the range of that instantly claim because the composition of the mixed oxide and the surface area (as explained above) of the catalysts in 10/549531 are the same as those of the instant invention, thus the other properties must also be the same. Also, properties of identical chemical composition can not have mutually exclusive properties. Also, the processes of producing the compositions are identical, even furthering this conclusion. See MPEP 2112.01.

Response to Arguments

Applicant's arguments with respect to the 102 and 103 rejections of claims 16-23 and 36-37 have been considered but are moot in view of the new ground(s) of rejection.

In regard to the Obviousness-Type double patenting rejection, applicant argues that since the reducibility of the composition is not recited in 10/549531, that the grounds of rejection fails to establish that the claims of the present invention are rendered obvious by the claims of 10/549531.

However, the compositions appear to be the same and thus must have the same properties, also the methods of preparing the claimed compositions are substantially identical, furthering the conclusion. Such a *prima facie* case of anticipation and/or obviousness can be rebutted by evidence showing an unobvious difference. Burden is on applicant to show such a difference. See MPEP 2112 and 2112.01. No difference has been shown.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY J. ZIMMER whose telephone number is (571)270-3591. The examiner can normally be reached on Monday - Friday 7:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ajz

/Steven Bos/ Primary Examiner, Art Unit 1793